

DFRC Record of Environmental Consideration

START DATE:

1/1/2015

DFRC CONTROL NUMBER:

14-02

Instructions: Section I to be completed by Proponent; Sections II and III to be completed by the Safety, Health & Environmental Office. Continue on page 2 or attach additional sheets as necessary and reference appropriate item number(s).

SECTION I - PROPONENT INFORMATION

1. TO: Environmental Officer
Safety, Health & Environmental Office

2. FROM (Proponent Organization, Functional Address Symbol):
Code F

2a. TELEPHONE NO.:
x7090

3. TITLE OF PROPOSED ACTION:

Repair Building 4824 Electrical Distribution System

4. PURPOSE AND NEED FOR ACTION (Describe why you need to take this action):

The purpose of this project is to improve the reliability, performance and safety of the electrical distribution system at Building 4824. Building 4824 is a 46-year old pre-engineered steel building that was overwhelmed long ago by the physical size and amount of equipment contained therein. The electrical distribution configuration is in violation of numerous regulatory codes and is highly unsafe.

5. DESCRIPTION OF PROPOSED ACTION AND ALTERNATIVES (DOPAA) (Provide sufficient details for evaluation of the total action.):

The proposed action would include upgrades to Substation 14, which feeds Building 4824, and the electrical circuitry within the facility. Project activities would include installation of two arc flash reducing high voltage switch breaker assemblies; replacement of the existing transformer with two pad-mounted transformers; installation of four dry-type transformers; replacement of switchgear; and installation of new duct banks and conductors to supply power to new feeder panels and UPS systems in the building. Activities would be confined to the fenced in area. No alternatives were considered.

6. PROPONENT (Name):

Stanford Dickson

6a. SIGNATURE:

6b. DATE:

SECTION II: PRELIMINARY ENVIRONMENTAL ANALYSIS. (Check appropriate box and describe potential environmental effects and mitigations.) (+ = Pos. Effect; 0 = No Effect; - = Neg. Effect; U = Unknown Effect)

	+	0	-	U
7. NOISE/LAND USE ZONE (Noise, accident potential, land use, etc.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. AIR QUALITY (Emissions, attainment status, conformity, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. WATER RESOURCES (Quality, quantity, source, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. SAFETY & OCCUPATIONAL HEALTH (Asbestos/radiation/chemical exposure, explosives, safe qty-distance, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. HAZARDOUS MATERIALS/WASTE (Use, storage, generation, solid waste, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. BIOLOGICAL RESOURCES (Floodplains, flora, fauna, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. CULTURAL RESOURCES (Architectural, historical, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14. GEOLOGY AND SOILS (Topography, Superfund Program, seismicity, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15. SOCIOECONOMIC (Employment/population projections, school and local fiscal impacts, etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. OTHER (Potential impacts not addressed above.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SECTION III - ENVIRONMENTAL ANALYSIS DETERMINATION

17. ☒ PROPOSED ACTION QUALIFIES FOR CATEGORICAL EXCLUSION (CATEX) # d(2)(i); OR
☐ PROPOSED ACTION DOES NOT QUALIFY FOR A CATEX; FURTHER ENVIRONMENTAL ANALYSIS IS REQUIRED.

18. ENVIRONMENTAL OFFICE CERTIFICATION (Name):
Jennifer Gocke

18a. SIGNATURE:

18b. DATE:

4-7-14

Environmental Management Requirements Checklist

Record of Environmental Consideration #14-02, *Repair Building 4824 Electrical Distribution System*, qualifies for Categorical Exclusion d(2)(i) (Operations and management activities including routine maintenance, minor construction or rehabilitation, minor demolition, minor modification, minor repair, and continuing or altered operations at, or of, existing NASA or NASA-funded or -approved facilities and equipment, such as buildings, roads, grounds, utilities, communication systems, and ground support systems, such as space tracking and data systems [14 CFR 1216.304]). Environmental impacts were considered to be insignificant based on anticipated implementation of the following requirements. Contact Jennifer Gocke, Environmental Officer, at x2909 or Stephanie Vaughn, Environmental Protection Specialist, at x5425 for any questions or concerns.

1. Notify the Environmental Office (Code SH) if the project scope or proposed activities change. Please allow adequate time for analysis of potential environmental impacts.
2. An Environmental Protection Plan (EPP) shall be submitted to Code SH for review prior to onset of project activities. All minimization measures contained in the environmental analysis shall be included in the EPP.
3. Equipment with an internal combustion engine over 50 bhp may need an operating permit from the Eastern Kern County Air Pollution Control District (EKAPCD) or would be registered with the California Statewide Portable Equipment Registration Program. Contact David Arokiasamy at extension 2294 for further information and to coordinate your application. Allow a minimum of 120 days lead time to obtain an EKAPCD permit.
 - If a portable generator comes from outside EKAPCD, notification to the receiving air district must be done and approval given prior to use.
4. During all construction, earth moving, or demolition activities; operation on unpaved surfaces; or when there is a potential that dirt/dust could become airborne, project managers shall have a process in place to prevent this occurrence (i.e., use of water truck, containerizing materials, covering bulk-load transportation truck beds).
5. Earth moving vehicles such as dump trucks, CATs, etc. shall not be left in idle for longer than 3 minutes, unless being actively used on the work site.
6. Driving on unpaved surfaces shall be at speeds between 5 and 35 mph, depending on weather and surface conditions, to ensure dust generation is kept to a minimum.
7. During high wind conditions, operations shall be stopped until wind levels drop low enough that dust controls will be effective.
8. During high wind conditions, open storage piles and vehicles hauling bulk materials shall be covered.

9. Domestic and industrial wastewater must be discharged to the sanitary sewer. Industrial wastewater discharges must be evaluated by Code SH for Edwards AFB permitting requirements. Contact David Arokiasamy of Code SH at extension 2294 for assistance.
10. This project has the potential to encounter asbestos-containing material (ACM) and/or lead-based paint (LBP). Contact Code XV at extension 2077 for survey, abatement, and disposal requirements.
11. Hazardous materials and hazardous waste shall be handled in accordance with applicable regulations. All hazardous materials used at Armstrong Flight Research Center shall be included in the AFRC Chemical Management System, DCP-S-102. Copies of Safety Data Sheets shall be submitted to Code SH for approval prior to bringing hazardous materials on site. For more information contact Code SH at extension 2307.
12. Demolition and disposal of construction and demolition materials and debris, including non-hazardous waste, shall be diverted from landfill disposal at a rate of 50% or greater as required by Executive Order 13514, *Federal Leadership in Environmental, Energy, and Economic Performance*.
13. Universal wastes (i.e., waste fluorescent bulbs, fixtures, thermostats, and batteries) shall be handled in accordance with applicable regulations. Contact Code SH at extension 2307 for assistance.
14. All spills or releases of hazardous materials or waste that occur during this project (regardless of quantity or location of spill) must be reported immediately to the Environmental Office (Code SH) at extension 2307.
15. An emergency spill kit shall be provided for this site as part of the contract requirements and cost. The spill kit shall contain sufficient materials to clean up and contain the maximum quantity of the largest transformer.
16. Hazardous wastes are subject to land disposal restriction requirements. Signed hazardous waste disposal manifests shall be required for all hazardous waste that may be generated on this project to include (but not limited to) ACM, lead, mercury, chromium, heavy metal-based paints, treated wood waste, and/or PCB-containing wastes prior to transportation for off-site disposal to a California Department of Toxic Substance Control (DTSC) and/or an Environmental Protection Agency-approved landfill. **The proponent/contractor shall submit all manifests to Code SH for signature prior to shipping waste off-site.** Contact Code SH at extension 2307 for submittal requirements.
17. Inert debris shall only be stored on site for 6 months if it has not been processed and sorted for resale or reuse. Inert debris that has been processed and sorted for resale, or reuse, shall only be stored on site for 18 months. Contact the Environmental Office (Code SH) at extension 2307 for assistance.
18. Concrete rinsate (waste) generated from concrete trucks during project activities shall be discharged in a designated area within the project site. Rinsate shall be discharged onto a

lining (i.e., tarp) or into a lined container. At project completion, disposal of concrete waste in an approved landfill shall be the responsibility of the contractor.

9. All project personnel working in the area shall complete desert tortoise awareness training prior to commencing work or visiting the work site. Contact the Environmental Office (Code SH) at extension 2307 for assistance.
 - Open excavations of any kind created during project activities shall be secured at the end of each day by backfilling, placing a cover over the excavation, installing a temporary Code SH-approved desert tortoise fence, and/or ramping excavations at a 3:1 slope. If it is decided to cover the excavation, materials used must completely prevent all wildlife from entering.
 - Excavations left unsecured during the workday shall be checked three times per day (morning, midday, and late afternoon) for trapped animals. If any animals are found in an excavation, immediately notify the Environmental Office (Code SH) at extension 2307.
 - Any sightings of desert tortoise within the project site must be reported immediately to the monitoring biologist or the Environmental Office (Code SH) at extension 2307.
 - Project activities are not permitted between dusk and dawn unless preauthorized by Code SH.
 - The project area shall be clearly marked at the outer boundaries to define the work area. All workers shall be instructed that their activities must be confined to locations within the fenced, flagged, or marked areas.
 - Project personnel shall use existing access roads and staging areas, and follow flagged access routes that have been surveyed or cleared of desert tortoises.
 - Habitat disturbance shall be contained to pre-disturbed areas as much as possible (includes staging areas for vehicles and equipment).
 - Any pipes stored within the area shall be capped on open ends or elevated at least 12 inches off the ground to prevent entry by desert tortoise or other wildlife.
 - Speed limits on dirt roads within the project area shall be less than 20 mph unless otherwise posted.
 - All trash shall be contained within raven-proof (covered) containers and removed from the project site.
 - No pets or fire arms shall be allowed on the project site.
10. If activities, including staging of construction equipment, cannot be limited to the confines of the fenced area surrounding Building 4824, additional revegetation requirements shall be included.
11. If possible, construction of structure(s) (i.e., electrical enclosure) should occur outside of the bird nesting season (February to August). If construction of structure(s) cannot occur outside of the nesting season and an active bird nest (nest with eggs, unfledged birds, or

adult birds observed in the nest) is found within the project area and cannot be avoided, a Depredation Permit from the United States Fish and Wildlife Service must be obtained prior to commencement of activities. Contact the Environmental Office (Code SH) at extension 2307 for assistance in this matter.

- Design and construction of the proposed facility should minimize potential nesting sites for birds. Migratory birds nest in the area yearly (nesting season is typically February to August, but some birds can nest year round) and are protected under the *Migratory Bird Treaty Act*. Nests may occur on the ground, in burrows or culverts, in vegetation (such as cattails), or on manmade structures (such as buildings, radar towers, static plane displays, catwalks, rafters, pipe, etc.). Anti-perching devices shall be installed to deter birds from perching on the structure.
20. The use of fill material from an on-base borrow pit shall come from an approved borrow site as described in the *Environmental Assessment for Borrow Sites at Edwards Air Force Base, California* (USACE and AFFTC 1996). Prior to removing material from the borrow pit, a 412 TW/CEV biologist shall be contacted for a presurvey. Contact the Environmental Office (Code SH) at extension 2307 for more information or assistance. A presurvey shall be coordinated at least 3 days in advance.
 - There are no approved borrow pits at Armstrong Flight Research Center.
 21. In the event of discovery of human remains or cultural items, immediately stop any excavation/digging and notify the Environmental Office (Code SH) at extension 2307.
 22. This project will require a D-WK 808-8, *Facilities Engineering Excavation Permit* (digging permit). The proponent/contractor shall coordinate the digging permit. Contact Code F at extension 3370 for specific requirements.